2022-23

QUALITY CONTROL TEST REPORTS

Name of the Client: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency: **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the Work: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

M/s. CIVIL QUALITY CONSULTANTS& ENGINEERS

(Buildings Geo-Tech &Road Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited as per ISO-17025: 2017 Laboratory

#133, Bhuvaneshwarinagar, DoddaBasti Main Road, Bangalore-560056
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 Mob: 9886998316

QC-ABSTRACT

Name of Work:- : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:4:8	2.88 Cum	1	1	Cement
					Sand, Aggregates
2	Steel	22.04 Tonne	1	1	-
3	Steel Railings	219.72 Sqm	1	1	-
4	M25	15.62 Cum	3	3	Concrete Cube Compressive Strength
5	M30	144.09 Cum	6	6	Concrete Cube Compressive Strength
6	Block 8"	56.31 Sqm	1	1	-
7	CC Tiles	235.20 Sqm	1	1	-
8	PVC Pipe 20mm	10.00 Mtr	1	1	-
9	PVC Pipe 25mm	8.00 Mtr	1	1	-
10	PVC Pipe 32mm	15.00 Mtr	1	1	-
11	PVC Pipe 40mm	20.00 Mtr	1	1	-
12	PVC Pipe 250mm	6.00 Mtr	1	1	-
13	GSB	222.70 Cum	1	1	-

Cubes	0-5 m^3	1set
	6-15 m^3	2set
	16-30 m^3	3set
	31-50 m^3	4 set
	Add 1set for every 50 Cum	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

Date: 06.04.2022

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample : : Cement (Dalmia 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: : March - 2022
Date of Testing : 04.04.2022 to 06.04.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part -5):1988(RA 2014)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5):1988(RA 2014)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date : 06.04.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Date of Testing : 06.04.2022
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	88	8.80	8.80	91.2	90-100
2.36	101	10.10	18.90	81.1	75-100
1.18	166	16.60	35.50	64.5	55-90
600 Micron	188	18.80	54.30	45.7	35-59
300 Micron	186	18.60	72.90	27.1	8-30
150 Micron	185	18.50	91.40	8.6	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

Date : 06.04.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Date of Testing : 06.04.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	210	1.40	1.40	98.60	95-100
20	8425	56.17	57.57	42.43	30-70
10	3266	21.77	79.34	20.66	10-35
4.75	2655	17.70	97.04	2.96	0-5

Note:

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

Date : 06.04.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Date of Testing : 06.04.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	209	4.2	4.2	95.8	95-100
10	2455	49.1	53.3	46.7	25-55
4.75	2155	43.1	96.4	3.6	0-10

Note:

1. The Material is satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

Date : 06.04.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Date of Testing : 06.04.2022

Material : Plastering Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	15	1.50	1.50	98.5	95-100
2.36	17	1.70	3.20	96.8	95-100
1.18	36	3.60	6.80	93.2	90-100
600 Micron	76	7.60	14.40	85.6	80-100
300 Micron	266	26.60	41.00	59.0	20-65
150 Micron	544	54.40	95.40	4.6	0-15

1. The Material is satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date : 06.04.2022

Job No.: CQCE/BBMP/NCR/17/2022-2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Date of Testing : 06.04.2022

Material : Masonry Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	35	3.50	5.70	94.3	70-100
600 Micron	83	8.30	14.00	86.0	40-100
300 Micron	265	26.50	40.50	59.5	5-70
150 Micron	488	48.80	89.30	10.7	0-15

Note:

1. The Material is satisfied as per the Requirements.

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Job No.: CQCE/BBMP/NCR/17/2022-2023

Date : 06.04.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Steel Dia/Length : 8mm,10mm,12mm,16mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 06.04.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.397	513	607	1.18	17
2	TMT	10	0.618	524	614	1.17	18
3	TMT	12	0.889	533	616	1.16	21
4	TMT	16	1.56	547	624	1.14	19

Note:

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

Date : 06.04.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Date of Testing : 06.04.2022

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	33.4	323.4	4.04	2087.50	**Minimum required Compressive Strength of Individual Units 4.00 N/mm^2**
2	Block 2	34.6	325.7	4.07	2162.50	
3	Block 3	32.7	328.9	4.11	2043.75	
4	Block 4	31.8	326.1	4.08	1987.50	

Note:

1. The Material is satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date 03.05.2022

TEST REPORT ON PRE-POLISHED DESIGNER CEMENT CONCRETE TILES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Contractor : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Pre-Polished Designer Cement Concrete Tiles, 25mm thickness

Technical Reference : IS: 1237-1980 (Reaffirmed 2006)

No. of Samples Tested : 6 (Six)

Date of Testing : 28.04.2022 to 03.05.2022

I.

Sl. No.	Wet Transverse Strength (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 1237-2012
1	5.4	5.22	The average wet transverse strength should not be less than 3.0 N/mm^2 when 6 full size tiles are tested.
2	4.7		
3	5.5		
4	4.8		
5	5.6		
6	5.3		

II.

Sl. No.	Water Absorption (% by Wt)	Average (% by Wt)	Requirement as per IS: 1237-2012

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Contractor : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	02.05.2022	8.014	400.3	17.79
2	25.04.2022	02.05.2022	8.101	415.6	18.47
3	25.04.2022	02.05.2022	8.171	423.7	18.83

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

23.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Contractor : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	23.05.2022	8.198	611.5	27.18
2	25.04.2022	23.05.2022	8.147	619.4	27.53
3	25.04.2022	23.05.2022	8.100	628.6	27.94

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/NCR/17/2022-2023

02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Contractor : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	02.05.2022	8.045	399.4	17.75
2	25.04.2022	02.05.2022	8.122	411.7	18.30
3	25.04.2022	02.05.2022	8.008	422.6	18.78

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/NCR/17/2022-2023

23.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Contractor : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	23.05.2022	8.052	613.8	27.28
2	25.04.2022	23.05.2022	8.180	625.6	27.80
3	25.04.2022	23.05.2022	8.093	636.4	28.28

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/NCR/17/2022-2023

17.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Contractor : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2022	17.05.2022	8.028	414.5	18.42
2	10.05.2022	17.05.2022	8.119	424.7	18.88
3	10.05.2022	17.05.2022	8.147	434.8	19.32

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

07.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Contractor : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2022	07.06.2022	8.039	622.7	27.68
2	10.05.2022	07.06.2022	8.158	631.8	28.08
3	10.05.2022	07.06.2022	8.111	642.6	28.56

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/NCR/17/2022-2023

Date: 01.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	**: M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2022	01.06.2022	8.154	517.5	23.00
2	25.05.2022	01.06.2022	8.095	523.6	23.27
3	25.05.2022	01.06.2022	8.024	535.9	23.82

Note:

1. The Material is Satisfied as per the Requirements.

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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date: 22.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	**: M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2022	22.06.2022	8.117	713.4	31.71
2	25.05.2022	22.06.2022	8.166	731.6	32.52
3	25.05.2022	22.06.2022	8.028	746.1	33.16

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date: 01.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	**: M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2022	01.06.2022	8.108	516.4	22.95
2	25.05.2022	01.06.2022	8.084	524.7	23.32
3	25.05.2022	01.06.2022	8.199	534.8	23.77

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

Date: 22.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	**: M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2022	22.06.2022	8.101	718.4	31.93
2	25.05.2022	22.06.2022	8.138	726.7	32.30
3	25.05.2022	22.06.2022	8.074	736.5	32.73

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date: 10.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	**: M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2022	10.06.2022	8.119	508.7	22.61
2	03.06.2022	10.06.2022	8.029	527.4	23.44
3	03.06.2022	10.06.2022	8.176	532.6	23.67

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

Date: 01.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	**: M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2022	01.07.2022	8.076	710.5	31.58
2	03.06.2022	01.07.2022	8.017	720.4	32.02
3	03.06.2022	01.07.2022	8.108	730.6	32.47

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date: 10.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2022	10.06.2022	8.033	510.7	22.70
2	03.06.2022	10.06.2022	8.066	520.5	23.13
3	03.06.2022	10.06.2022	8.099	530.4	23.57

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date: 01.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of the work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2022	01.07.2022	8.047	720.6	32.03
2	03.06.2022	01.07.2022	8.169	730.5	32.47
3	03.06.2022	01.07.2022	8.012	740.1	32.89

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023

Date: 15.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	: **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2022	15.06.2022	8.161	512.3	22.77
2	08.06.2022	15.06.2022	8.063	522.4	23.22
3	08.06.2022	15.06.2022	8.128	532.6	23.67

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date: 06.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	: **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2022	06.07.2022	8.073	721.6	32.07
2	08.06.2022	06.07.2022	8.144	731.5	32.51
3	08.06.2022	06.07.2022	8.019	741.8	32.97

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date: 15.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	: **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2022	15.06.2022	8.013	513.6	22.83
2	08.06.2022	15.06.2022	8.171	523.4	23.26
3	08.06.2022	15.06.2022	8.139	533.7	23.72

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 Date: 06.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	**: M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of the work	: Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2022	06.07.2022	8.051	724.6	32.20
2	08.06.2022	06.07.2022	8.151	734.8	32.66
3	08.06.2022	06.07.2022	8.018	744.7	33.10

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/NCR/17/2022-2023 Date : 12.05.2022

GRADATION FOR GSB (Grading V)

Client : : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency: : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.
Name of work: : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore
BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985
Date of Testing : 10.05.2022 to 12.05.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1000	1000	7.69	92.31	80-100
26.5	2222	3222	24.78	75.22	55-90
9.5	2281	5503	42.33	57.67	35-65
4.75	2102	7605	58.50	41.50	25-50
2.36	3441	11046	84.97	15.03	10-20
0.85	1021	12067	92.82	7.18	2-10
0.425	323	12390	95.31	4.69	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 06.04.2022

TEST REPORT ON PVC PIPE

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of Work : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 4985:2000

Sample Identification: PVC pipe 20mm dia

Date of Testing 06.04.2022

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	20	20 mm
2	Mean Outside Diameter (mm)	20.2	Min 20 mm Max 20.3 mm
3	Outside Diameter at Any Point (mm)	20.40%	Min 19.5 mm Max 20.5 mm

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/NCR/17/2022-2023 06.04.2022

TEST REPORT ON STAINLESS STEEL HOLLOW PIPE (16th Gauge)

Client : **: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **: M/s Sri Nanjundeshwara Construction (Rajesh M),** Contractor, Bangalore.

Name of work : : Redesign and Upgrading of Existing Musicle fountain Interfaced With Multimedia based laser And Video Projection on Aqua Screen At J.P Park Ward No 17 Under package -2019-20 RRN-DIV-(08), BBMP, Bangalore

Specimen Size : SS Hollow pipe 50mm Dia

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	1.68 mm
2	Inner Diameter	50.10 mm
3	Outer Diameter	51.78 mm
4	Weight / Meter	2.528 Kg

The Results relate only to the items tested

Note: